

Release notes for ENDF/B Development n-052\_Te\_130  
evaluation

**ENDF**  
**B-VII**.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section  
*MAT=5255, MF= 1, MT=451 (1): Parsing stopped*

```
ERROR(S) FOUND IN MAT=5255, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      104 TO      160
```

- checkr Errors:

1. A variable is outside the allowed ENDF range  
*MAT=5255, MF= 1, MT=451 (0): Variable range*

```
ERROR(S) FOUND IN MAT=5255, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      104
```

2. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 2, MT=151 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5255, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      162
```

3. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 1 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      243
```

4. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 2 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      281
```

5. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 4 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      319
```

6. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 16 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY      RECORD NUMBER      352
```

7. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 17 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 17  
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 370

8. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 22 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 22  
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 380

9. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 28 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 28  
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 393

10. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 51 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 51  
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 406

11. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 52 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 52  
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 439

12. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 53 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 53  
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 470

13. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 54 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 54  
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 501

14. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 55 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 55  
SECTION 3/ 55 NOT IN DIRECTORY RECORD NUMBER 531

15. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 56 (0): Directory (b)*

- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 56 | RECORD NUMBER | 561 |
| SECTION 3/ 56 NOT IN DIRECTORY            |               |     |
16. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 57 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 57 | RECORD NUMBER | 591 |
| SECTION 3/ 57 NOT IN DIRECTORY            |               |     |
17. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 58 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 58 | RECORD NUMBER | 620 |
| SECTION 3/ 58 NOT IN DIRECTORY            |               |     |
18. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 59 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 59 | RECORD NUMBER | 649 |
| SECTION 3/ 59 NOT IN DIRECTORY            |               |     |
19. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 60 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 60 | RECORD NUMBER | 678 |
| SECTION 3/ 60 NOT IN DIRECTORY            |               |     |
20. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 61 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 61 | RECORD NUMBER | 706 |
| SECTION 3/ 61 NOT IN DIRECTORY            |               |     |
21. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 62 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 62 | RECORD NUMBER | 734 |
| SECTION 3/ 62 NOT IN DIRECTORY            |               |     |
22. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 63 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 63 | RECORD NUMBER | 762 |
| SECTION 3/ 63 NOT IN DIRECTORY            |               |     |
23. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 64 (0): Directory (b)*

- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 64 |               |     |
|  | SECTION 3/ 64 NOT IN DIRECTORY            | RECORD NUMBER | 789 |
24. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 65 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 65 |               |     |
|  | SECTION 3/ 65 NOT IN DIRECTORY            | RECORD NUMBER | 816 |
25. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT= 91 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5255, MF= 3, MT= 91 |               |     |
|  | SECTION 3/ 91 NOT IN DIRECTORY            | RECORD NUMBER | 843 |
26. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT=102 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5255, MF= 3, MT=102 |               |     |
|  | SECTION 3/102 NOT IN DIRECTORY            | RECORD NUMBER | 868 |
27. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT=103 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5255, MF= 3, MT=103 |               |     |
|  | SECTION 3/103 NOT IN DIRECTORY            | RECORD NUMBER | 906 |
28. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT=104 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5255, MF= 3, MT=104 |               |     |
|  | SECTION 3/104 NOT IN DIRECTORY            | RECORD NUMBER | 927 |
29. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT=105 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5255, MF= 3, MT=105 |               |     |
|  | SECTION 3/105 NOT IN DIRECTORY            | RECORD NUMBER | 942 |
30. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 3, MT=107 (0): Directory (b)*
- |  |   |               |     |
|--|---|---------------|-----|
|  | ERROR(S) FOUND IN MAT=5255, MF= 3, MT=107 |               |     |
|  | SECTION 3/107 NOT IN DIRECTORY            | RECORD NUMBER | 954 |
31. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 2 (0): Directory (b)*

- |  |               |     |
|--|---------------|-----|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 2 | RECORD NUMBER | 976 |
| SECTION 4/ 2 NOT IN DIRECTORY            |               |     |
32. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 16 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 16 | RECORD NUMBER | 1387 |
| SECTION 4/ 16 NOT IN DIRECTORY            |               |      |
33. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 17 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 17 | RECORD NUMBER | 1418 |
| SECTION 4/ 17 NOT IN DIRECTORY            |               |      |
34. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 22 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 22 | RECORD NUMBER | 1437 |
| SECTION 4/ 22 NOT IN DIRECTORY            |               |      |
35. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 28 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 28 | RECORD NUMBER | 1462 |
| SECTION 4/ 28 NOT IN DIRECTORY            |               |      |
36. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 51 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 51 | RECORD NUMBER | 1487 |
| SECTION 4/ 51 NOT IN DIRECTORY            |               |      |
37. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 52 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 52 | RECORD NUMBER | 1598 |
| SECTION 4/ 52 NOT IN DIRECTORY            |               |      |
38. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 53 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 53 | RECORD NUMBER | 1705 |
| SECTION 4/ 53 NOT IN DIRECTORY            |               |      |
39. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 54 (0): Directory (b)*

- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 54 | RECORD NUMBER | 1752 |
| SECTION 4/ 54 NOT IN DIRECTORY            |               |      |
40. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 55 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 55 | RECORD NUMBER | 1799 |
| SECTION 4/ 55 NOT IN DIRECTORY            |               |      |
41. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 56 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 56 | RECORD NUMBER | 1903 |
| SECTION 4/ 56 NOT IN DIRECTORY            |               |      |
42. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 57 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 57 | RECORD NUMBER | 1950 |
| SECTION 4/ 57 NOT IN DIRECTORY            |               |      |
43. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 58 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 58 | RECORD NUMBER | 1995 |
| SECTION 4/ 58 NOT IN DIRECTORY            |               |      |
44. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 59 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 59 | RECORD NUMBER | 2097 |
| SECTION 4/ 59 NOT IN DIRECTORY            |               |      |
45. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 60 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 60 | RECORD NUMBER | 2142 |
| SECTION 4/ 60 NOT IN DIRECTORY            |               |      |
46. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 61 (0): Directory (b)*
- |   |               |      |
|---|---------------|------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 61 | RECORD NUMBER | 2244 |
| SECTION 4/ 61 NOT IN DIRECTORY            |               |      |
47. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 62 (0): Directory (b)*

- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 62 |                    |
| SECTION 4/ 62 NOT IN DIRECTORY            | RECORD NUMBER 2344 |
48. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 63 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 63 |                    |
| SECTION 4/ 63 NOT IN DIRECTORY            | RECORD NUMBER 2444 |
49. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 64 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 64 |                    |
| SECTION 4/ 64 NOT IN DIRECTORY            | RECORD NUMBER 2489 |
50. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 65 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 65 |                    |
| SECTION 4/ 65 NOT IN DIRECTORY            | RECORD NUMBER 2534 |
51. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 4, MT= 91 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5255, MF= 4, MT= 91 |                    |
| SECTION 4/ 91 NOT IN DIRECTORY            | RECORD NUMBER 2579 |
52. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 5, MT= 16 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5255, MF= 5, MT= 16 |                    |
| SECTION 5/ 16 NOT IN DIRECTORY            | RECORD NUMBER 2621 |
53. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 5, MT= 17 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5255, MF= 5, MT= 17 |                    |
| SECTION 5/ 17 NOT IN DIRECTORY            | RECORD NUMBER 2751 |
54. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 5, MT= 22 (0): Directory (b)*
- |   |                    |
|---|--------------------|
| ERROR(S) FOUND IN MAT=5255, MF= 5, MT= 22 |                    |
| SECTION 5/ 22 NOT IN DIRECTORY            | RECORD NUMBER 2821 |
55. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 5, MT= 28 (0): Directory (b)*



ERROR(S) FOUND IN MAT=5255, MF= 5, MT= 28

SECTION 5/ 28 NOT IN DIRECTORY

RECORD NUMBER 2914

56. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5255, MF= 5, MT= 91 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5255, MF= 5, MT= 91

SECTION 5/ 91 NOT IN DIRECTORY

RECORD NUMBER 3007

• **psyche** Warnings:

1. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ISOTOPE MASS = 130. L = 0 / STRENGTH FUNCTION IS 6.78220E-06 / AVERAGE GAMMA WIDTH 3.50000E-02 / LIES OUTSIDE LIMITS 4.00000E-02 TO 9.00000E+00 EV. (0): URR str. ftn.*

FILE 2

SECTION 151

ISOTOPE MASS = 130. L = 0

STRENGTH FUNCTION IS 6.78220E-06

AVERAGE GAMMA WIDTH 3.50000E-02

... [1 more lines]

2. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ISOTOPE MASS = 130. L = 0 / STRENGTH FUNCTION 6.78220E-06 / LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04 (0): URR str. ftn.*

FILE 2

SECTION 151

ISOTOPE MASS = 130. L = 0

STRENGTH FUNCTION 6.78220E-06

LIES OUTSIDE LIMITS 1.00000E-05 TO 1.00000E-04

3. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ISOTOPE MASS = 130. L = 1 / STRENGTH FUNCTION IS 7.71536E-05 / STRENGTH FUNCTION 7.71536E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. ftn.*

FILE 2

SECTION 151

ISOTOPE MASS = 130. L = 1

STRENGTH FUNCTION IS 7.71536E-05

STRENGTH FUNCTION 7.71536E-05

... [1 more lines]

4. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 3.10000E+04. STRENGTH FUNCTION IS 1.60000E-04 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 1.99460E-04 / DENSITY 3.29450E+03 SHOULD BE 3.54445E+03 (0): URR dens. (a)*

FILE 2

SECTION 151

ENERGY = 3.10000E+04. STRENGTH FUNCTION IS 1.60000E-04

ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 1.99460E-04

DENSITY 3.29450E+03 SHOULD BE 3.54445E+03

- Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 3.10000E+04. STRENGTH FUNCTION IS 9.90000E-05 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 1.02953E-04 / DENSITY 2.52960E+03 SHOULD BE 2.46300E+03 (0): URR dens. (a)*

```
FILE 2
SECTION 151
ENERGY = 3.10000E+04. STRENGTH FUNCTION IS 9.90000E-05
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 1.02953E-04
DENSITY 2.52960E+03 SHOULD BE 2.46300E+03
```

- groupie Errors:

- Very small elastic cross section found  
*0: Small elastic*

```
Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)
-----
ENDF/B Input and Output Data Filenames
ENDFB.IN
ENDFB.OUT
... [97 more lines]
```

- fudge-4.0 Warnings:

- Missing a channel with a particular angular momenta combination  
*resonances / resolved / MultiLevelBreitWigner (Error # 0): missingResonanceChannel*

```
WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"
```

- fudge-4.0 Errors:

- Energy range of data set does not match cross section range  
*reaction label 1: n + Te130.e1 / Product: n / Distribution: / angularTwoBody - XYs2d: (Error # 0): Domain mismatch (a)*

```
WARNING: Domain doesn't match the cross section domain: (846020.1 -> 20000000.0) vs (846020.0 -> 20000000.0)
```

- Calculated and tabulated Q values disagree.  
*reaction label 17: n[multiplicity:'2'] + Te129 (Error # 0): Q mismatch*

```
WARNING: Calculated and tabulated Q-values disagree: -8670957.263275146 eV vs -8.413e6 eV!
```

- Energy range of data set does not match cross section range  
*reaction label 17: n[multiplicity:'2'] + Te129 / Product: n / Distribution: / uncorrelated - angular - XYs2d: (Error # 0): Domain mismatch (a)*

```
WARNING: Domain doesn't match the cross section domain: (8478301.0 -> 20000000.0) vs (8478300.0 -> 20000000.0)
```

- Energy range of data set does not match cross section range  
*reaction label 17: n[multiplicity:'2'] + Te129 / Product: n / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (8478301.0 -> 20000000.0) vs (8478300.0 -> 20000000.0)

5. Calculated and tabulated Q values disagree.  
*reaction label 18: n[multiplicity:'3'] + Te128 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -14753365.37049866 eV vs -1.4498e7 eV!

6. Calculated and tabulated Q values disagree.  
*reaction label 19: n + H1 + Sb129 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -10264110.46911621 eV vs -1.0012e7 eV!

7. Calculated and tabulated Q values disagree.  
*reaction label 20: Te131 + gamma (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 5677968.439926147 eV vs 5.9297e6 eV!

8. Calculated and tabulated Q values disagree.  
*reaction label 21: n + He4 + Sn126 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -4007320.919662476 eV vs -3.7513e6 eV!

9. Calculated and tabulated Q values disagree.  
*reaction label 22: H1 + Sb130\_s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -4528870.193206787 eV vs -4.2356e6 eV!

10. Calculated and tabulated Q values disagree.  
*reaction label 23: H2 + Sb129\_s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -8039544.368179321 eV vs -7.788e6 eV!

11. Calculated and tabulated Q values disagree.  
*reaction label 24: H3 + Sb128\_s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -9872779.443130493 eV vs -9.616e6 eV!

12. Calculated and tabulated Q values disagree.  
*reaction label 25: He4 + Sn127\_s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 1542680.587081909 eV vs 1.803e6 eV!

- njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 16  
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (1): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 17  
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (2): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 22  
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (3): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 28  
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (4): GROUPR/conver (0)*

---message from conver---cannot do complete particle production for mt= 91  
only mf4/mf5 provided